



# NUCLEAR DIVISION NEWS

A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 4 - No. 8

April 19, 1973

## QUESTION BOX

If you have questions on company policies, benefits, etc. or any other problems with which we might help, just let us know. Drop your inquiry to the Editor, Nuclear Division News. (Or telephone it in to your plant news representative... see page two). You may or may not sign your name. It will not be used in the paper if you so desire.

Questions are referred to the proper authorities for accurate answers. Each query is given serious consideration for publication.

Answers may be given to employees personally if they so desire.

(Editor's Note: Several questions have been received concerning the company service restoration recently announced. All of these questions involve the possibility of obtaining company service credit for periods of time worked at Y-12 and/or ORNL prior to Union Carbide Corporation being assigned the operation of these facilities. Since all of them pertain to the same principle, one has been selected as being typical and is the only one being answered.)

**QUESTION:** If employees worked with another contractor (such as Tennessee Eastman Corporation in Y-12 and/or Monsanto in X-10) and were reduced in force and later came to work with Carbide, do they get their time with the other company? All of these were operated by AEC, were they not?

**ANSWER:** The recently announced restoration of company service gives credit for time previously worked for Union Carbide Corporation but not credited at the time of an employee's return to work for Union Carbide Corporation, provided the employee completes two years of service credit following the date of rehire. It covers only prior service with Union Carbide Corporation and does not apply to any breaks in service or to prior service with any predecessor company.

This means that in the Nuclear Division there will not be any change in company service for previously noncredited work periods with other contractors prior to Carbide's becoming the operating contractor at any facility.

**QUESTION:** Thought this new deal (on the Cafeterias) was supposed to get

these menus more in line with each other both in prices and varieties. Please compare the two attached menus (K-25 & Y-12).

**ANSWER:** The three Oak Ridge cafeterias were placed under the management of one individual on March 5, 1973. One of his first projects was to undertake a thorough study to determine the cost of foods being served at each facility as well as the size of portions and their related selling prices. Following this study we are certain that the kinds of foods served and their prices will be handled on a more consistent basis.

**QUESTION:** I would like to know why supervisors are not transferred from one department to another within the same job status as employees are. When a supervisor is kept in a department for long periods of time, some employees get buddie-buddie and it causes partiality among the employees.

**ANSWER:** Occasionally, supervisors are transferred to satisfy a specific need for their knowledge or for training purposes. Random transfer, however, could be detrimental to operating efficiency as well as a disadvantage to supervisors who have developed special skills and knowledge.

Regardless of the frequency of supervisory reassignments, the Company does not condone any practice of discriminatory partiality by supervision in their working relationship with subordinates.

### Next Issue

The next issue will be dated May 3.  
The deadline is April 26.

### NUCLEAR DIVISION SAFETY SCOREBOARD

Time worked without a lost-time accident through April 12:

Paducah	185 Days	1,181,000 Man-Hours
ORGDP	42 Days	622,000 Man-Hours
ORNL	122 Days	2,143,277 Man-Hours
Y-12	84 Days	3,116,000 Man-Hours

**Safety is everyone's concern!**

## Significant improvements made in Carbide's benefit plans

Union Carbide Corporation has announced proposed significant improvements in the Pension and Insurance Plans and a liberalization in company service credit rules.

Under the revised Pension Plan, the regular formula for calculating monthly pension and disability benefits will be increased from 1.1 to 1.2 percent of the average straight-time monthly earnings (for the final five years or the best five of the final ten calendar years) multiplied by the years of company service credit.

### Minimum pension upped

The minimum pension benefit also will be increased. Under the present plan, the minimum has been \$4 a month for each year of company service, plus 10 percent of the employee's average straight-time monthly earnings. For employees retiring on or after January 1, 1973, the minimum under the modified plan will be \$4 a month for each year of the first 10 years of company service, \$5 a month for each of the next 10 years, and \$6 a month for each year of company service over 20 years, in addition to 10 percent of the average straight-time monthly earnings.

A new early retirement option will be available. Previously, these options were based on either: 60 years of age with at least 30 years of service; or 62 years of age with a minimum of 10 years of service. The improved plan will enable employees to take retirement with full pension benefits as early as age 55, provided they have a minimum of 35 years of company service credit.

### Pension eligibility

If an employee under 55 years of age is terminated and he has attained sufficient age and company service to have vested rights to a pension, he may choose later to receive an actuarially reduced pension benefit beginning as early as age 55. Previously, this was not available to a former employee with vested rights until age 62.

The minimum company service required for a disability benefit under the Pension Plan will be reduced from 15 to 10 years. This will apply to a disability which started on or after July 1, 1972.

### Company service rules

Another aspect of the improved benefits applies to any employee who is terminated by the Company for any reason other than cause on or after January 1, 1973. If the employee is within two years of becoming eligible to start receiving an actuarially reduced or a full pension, he will be credited with up to two additional years in satisfying the

age and/or company service credit requirements so that he can start receiving his benefits immediately. However, the additional time will not be used in calculating the amount of the pension benefit.

### Other changes noted

Retired employees will also gain from the improved Pension Plan. Payments to ex-employees who retired before 1973 with a non-deferred benefit, will be increased by 5 percent, with a minimum of \$10 and a maximum of \$25, beginning January 1, 1973. The minimum and maximum increases will be \$5 and \$12.50 for a surviving spouse receiving a benefit under the Pension Plan and for a contingent annuitant under the Retirement Plan.

Other changes deal with group insurance. The minimum amount of basic life insurance continued after retirement will be increased from \$1,250, or 25 percent (whichever is greater), of the basic coverage just before retirement to \$2,500 or 25 percent (whichever is greater), subject to the existing maximum. In addition, the minimum company service credit required for basic life insurance after retirement will be reduced from 15 to 10 years. Both of these improvements will be available to those who ceased active employment on or after December 31, 1972.

### Other related improvements are:

If an employee takes early retirement on or after March 1, 1973, with a full pension benefit, Union Carbide will pay half the cost of maintaining basic hospitalization and surgical benefits coverage, including eligible dependents, until the employee becomes eligible for Medicare.

### Previous service honored

If an employee worked for Carbide in the past, stopped working, and then later was rehired without prior company service credit, he will now receive credit for the past service as soon as he has completed two years of company service following rehire. This past service credit will apply to all company benefit plans, such as vacation and retirement. This improvement will be available to employees on the payroll as of January 1, 1973, and anyone rehired after that date.

Agreement in principle has been reached covering these improvements with the certified unions representing Nuclear Division hourly employees.

The improvements are subject to approval by Union Carbide Corporation stockholders, the Cost of Living Council, and the Internal Revenue Service. In the Nuclear Division, Atomic Energy Commission approval was also required and has been granted.



# ORNL men chair Gordon Research Conferences

Eugene Eichler has been named chairman of the 1973 Gordon Research Conference on Nuclear Chemistry. Eichler, an employee of the Chemistry Division of Oak Ridge National Laboratory, is presently assigned to the Program Planning and Analysis Group. He is the fifteenth ORNL staff member to serve as chairman of one of the conferences.

The Gordon Research Conferences, which began with a single conference in 1931, now consist of approximately 70 annual meetings. They are attended by over 7,000 scientists from countries throughout the world.

Neil E. Gordon of Johns Hopkins initiated the conferences. He foresaw the need for establishing good, direct communication between scientists working in particular areas, and often in different disciplines of science. He sought to avoid the distractions prevalent in large meetings of scientific societies where relatively few attendees have significant involvement in any given area.

The conferences were organized pretty much as they exist today: secluded locations, small groups of highly qualified participants, informal and off-the-record discussions, and the specification of a scientific subject at the frontier of knowledge.

## Chair's responsibilities

A conference chairman, with his committee, is responsible for the program of his particular conference, including its content and conduct, selection of the discussion leaders and selection of the members of the conference. Primary criteria for membership are scientific accomplishment and a commitment to participate actively and meaningfully in the discussions.

There is no recording or publication of the proceedings, and participants retain full rights to publish their contributions at a later date. Reference to the Gordon Research Conferences in connection with any future publication is, however, forbidden.

## History being written

ORNL's involvement in the Gordon Research Conferences began in 1952

when Kurt A. Kraus, Director's Division, served as chairman of the conference on Ion Exchange. Sheldon Datz, Chemistry Division, has chaired two conferences: Particle-Solid Interactions in 1970, and Dynamics of Molecular Collisions in 1972.

Francois Kertesz, Information Division, has attended all but the first conference on Scientific Information Problems in Research, which began in 1961. He served as chairman of the conference in 1966. Kertesz is presently working with another past chairman, Robert Harte, American Society of Biological Chemists, in writing a history of this particular series of Gordon Research Conferences.

## Other chairmen

Other ORNL employees who have served as chairmen of Gordon Research Conferences are: J.R. Johnson, former employee, Solid State Studies in Ceramics, 1956; Clarence J. Hochanadel, Chemistry, Radiation Chemistry, 1957; Russell Baldock, former employee, Chemistry and Physics of Isotopes, 1958; Ellison H. Taylor, Chemistry, Radiation Chemistry, 1962; Max A. Bredig, Consultant, Chemistry of Molten Salts, 1965; G. Davis O'Kelley, Chemistry, Nuclear Chemistry (vice chairman) 1967; Norwood B. Gove, Mathematics, Numerical Data of Science and Technology - Generation and Critical Evaluation, 1969; Francis G. Perey, Neutron Physics, Nuclear Structure Physics, 1971; G. Pedro Smith, Metals and Ceramics, Chemistry of Molten Salts - 1971; John V. Cathcart, Metals and Ceramics, Corrosion, 1971; and Joseph B. McGrory, Physics, Nuclear Structure Physics, 1972.

Eichler's conference will be held June 25-29 at Colby Junior College in New London, N.H. Some of the topics to be discussed are: "Anomalous Moments in Inertia in Rotational Bands (back-bending) and Decoupling Phenomena," "Multipole Pairing Correlations from Two-Nucleon Transfer Reactions," and "New and Future Accelerators."



**GORDON RESEARCH CONFERENCES CHAIRMEN** — Seated from left are John V. Cathcart, 1971; Sheldon Datz, 1970 and 1972; Eugene Eichler, 1973; Francois Kertesz, 1966; and Ellison H. Taylor, 1962. Standing from left are Norwood B. Gove, 1969; Max A. Bredig, 1965; G. Davis O'Kelley, 1967; Joseph B. McGrory, 1972; and Kurt A. Kraus, 1952.

## ORNL credit union observes new hours

The ORNL Credit Union will have a new schedule of office hours beginning May 2. The change is designed to provide better service during the hours of operation.

The Oak Ridge office will be closed on Wednesday and Saturday afternoons. This schedule will enable the Credit Union to be fully staffed four days each week and operate with a reduced staff on Wednesday and Saturdays, thereby resolving the current necessity of some employees having to be off every day except Tuesday.

The Knoxville Branch will be open on Mondays and closed all day on Wednesdays.

The new office hours are as follows:

**Oak Ridge Office:** Monday, Tuesday, Thursday, Friday - 9 a.m. to 5:45 p.m.  
Wednesday and Saturday - 8:30 to 12 noon

**Knoxville Branch:** Monday, Tuesday, Thursday, Friday - 9 a.m. to 5:45 p.m.  
Saturday - 8:30 to 12 noon.

## ASM's student night meeting - April 24

The Oak Ridge Chapter of the American Society for Metals will hold its annual student night technical meeting at the Sheraton Campus Motor Inn, Knoxville, on Tuesday.

The guest speaker will be F.D. Lemkey of United Aircraft Research Laboratory, East Hartford, Conn. His subject will be "Directional Solidification of Eutectic and Superalloys."

The program consists of a reception at 6:15 p.m., roast beef buffet at 7:15 and Lemkey's talk at 8. Cost of the buffet is \$4 for ASM members and \$2 for students. Reservations should be made as soon as possible by telephoning Everett Bloom, extension 3-1608.

## Y-12 FIRE CAPTAIN

Harry L. Dickenson, 301 W. Faunce Road, Oak Ridge, died April 3, in Orlando, Fla. Capt. Dickenson retired from Y-12's Fire and Guard Department in 1962. He is survived by his wife, two daughters and a son.

## NUCLEAR DIVISION NEWS



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**SECRETARIES WEEK PROCLAIMED** — Mayor A.K. Bissell, Oak Ridge, signs the document proclaiming April 22-28 as Secretaries Week. Onlookers include, from left: Rebecca Rickman, president Oak Ridge Chapter - NSA (ORNL); Alease Hibben; and Ellen Queener, chairman of Secretaries Week (ORGDP).

## Secretaries week

The 22nd Annual Secretaries Week will be observed April 22-28. The theme for the week will be "Better Secretaries Mean Better Business."

Mayor A. K. Bissell, in proclaiming Secretaries Week in Oak Ridge, has requested that all businesses and industries take this opportunity to give due recognition to their secretaries. Secretaries Day is set for Wednesday, April 25. The proclamation of Secretaries Week has also been made by Governor Winfield Dunn.

Annual Secretaries Week is sponsored by the National Secretaries Association. The aim of the members of the Oak Ridge Chapter, according to Rebecca Rickman, president, is "to show our employers that better secretaries do mean better business."



3755-72



Beeler

## ORNL's Beeler named plant protection head

Ben M. Beeler has assumed responsibility for the Plant Protection department of the Laboratory Protection Division at Oak Ridge National Laboratory. His new duties will include supervision of the Fire and Guard department and responsibility for fire prevention and control, fire protection equipment, inspections, tests and fire engineering.

Before coming to work at ORNL in 1947, Beeler served three and a half years in the U.S. Air Force. While in the Air Force, he served as chief of fire department operations, fire training instructor and fire control officer, at Lowery Air Force Base, Denver, Colo., and in the European Theater operations, respectively.

Beeler's educational background includes completion of Delaney's technical fire training course, completion of the technical fire training course at the University of Denver and completion of the Fire Department's instructors course at Texas A&M. He is a member of the Standards Review Committee of the National Fire Prevention Association, the Executive Committee of the Industrial Fire Protection Section and the American Society of Safety Engineers.

Beeler lives with his wife, Ruth, and daughter, Lana Kay, at 5644 Kentwood Road, Knoxville.

## New time begins Sunday, April 29

Nuclear Division employees in the Oak Ridge vicinity, as well as in Paducah, will forfeit an hour of sleep Saturday, April 28. At 2 a.m., Sunday, April 29, clocks will be advanced one hour in Tennessee and Kentucky, as the nation moves to Daylight Saving Time.

Employees will report to work on Saturday on Standard Time and clock out on Sunday on Daylight Saving Time . . . in Tennessee on Eastern Time, and in Kentucky, on Central Time.

Daylight Saving Time will stay in effect until late October.

## 'Black lung' miners enroll in TAT plan

Former coal miners receiving Black Lung benefits are now offered skill and technical training by the Training and Technology Program. The pilot program, which began April 5, is intended to demonstrate that disabled miners can be successfully retrained as skilled craftsmen and placed in well-paying industrial jobs. Training is provided in the areas of industrial electricity, machining, and mechanical operations, to enable these men to return to productive lives as wage earners.

Funding for the training project is being provided cooperatively by the U.S. Department of Labor and the Tennessee Department of Vocational Rehabilitation. The men will continue to receive Black Lung benefits while in training, as well as additional support from the Department of Vocational Rehabilitation. The United Mine Workers is cooperating in locating men eligible for training.

Training is held in the Y-12 Plant, where skilled Union Carbide craftsmen serve as instructors in the skill areas. Training and Technology staff offers trade-related courses in mathematics and science, and remedial courses if required.

TAT is a skill and technical training program operated jointly by Oak Ridge Association Universities and the Nuclear Division. In its six years of operation, TAT has trained over 2,000 men and women and placed them with industry. During 1972, TAT placed 341 of its graduates in jobs with an average wage of \$3.29 an hour, or \$6,830 a year.



SAVINGS BOND CHAIRMEN — Pre-drive plans are made by U.S. Savings Bond chairmen for the four installations and the General Staff. From left are Robroy Millican, Paducah; Bill Hicks, Y-12, substituting for James M. Seivers; John D. Nicol, ORGDP; John A. Auxier, ORNL; Ward Foster, general chairman; and William E. Schimmel, General Staff.

## Savings Bond drive set for employees May 1-20

Another U.S. Savings Bond campaign is set in the four Nuclear Division plants, according to Ward Foster, general chairman for the May drive.

In a recent meeting, Foster informed chairmen from the four installations and the General Staff of plans for the fourth campaign urging employees to save money by the purchase of U.S. Savings through payroll deductions.

"It's a good way to help the government fight inflation," Foster pointed out, and "an easy way to build a personal savings fund at the same time."

Representing Paducah was Robroy Millican. From Y-12 was Bill Hicks, sitting in for James M. Seivers; from ORNL was John A. Auxier; from ORGDP was John D. Nicol; and from General Staff was William E. Schimmel.

### Advantages seen

During 1972, Nuclear Division employees saved some \$2,000,000 by purchasing Series E Savings Bonds. All of these were purchased through payroll savings. (Many other employees are buying bonds through their Personal Savings Account in the UCC Savings Plan.)

The many advantages of Savings Bonds as a means of saving were pointed out to the plant chairmen by Foster, concentrating mainly on retirement funds and college funds for the children. Tax advantages were cited in both instances. For example, income taxes on the interest earned from bonds purchased for retirement purposes can be deferred until age 75 and still furnish semi-annual retirement income after age 65. On college funds, taxes can be minimized and even eliminated by buying Bonds with the student as the owner and the employee as the beneficiary.

Last year's successful drive saw more than 49 percent of all Nuclear Division employees on payroll savings. "Before we sit back and relax and pat ourselves on the back, we might look at some other corporations," Foster warned, "corporations like Lockheed, Gulf, General Motors, South Central Bell, and others, boast as high percentages as 95. That makes our 49 look sort of paltry."

### Completion expected

Keen competition is expected again this year between the two gaseous diffusion plants - in Oak Ridge and Paducah. Both plants already won Minute Man flags, showing that more than 50 percent of their employees are purchasing bonds regularly through payroll savings.

The General Staff also went over the 50 percent mark last year and is flying the Minute Man flag.

A letter from Nuclear Division President Roger F. Hibbs was scheduled to be mailed to all employees who currently are purchasing bonds early this week. In his letter, Hibbs thanked them for their continued participation in the program and urged them to encourage their fellow employees to invest in U.S. Savings Bonds.

More advantages of purchasing U.S. Savings Bonds will be detailed in the next issue of Nuclear Division News.

## April 20 holiday

Friday, April 20 is an official holiday for all Nuclear Division employees. No employee will be required to be at work, unless his presence is required for continuous operation or security.

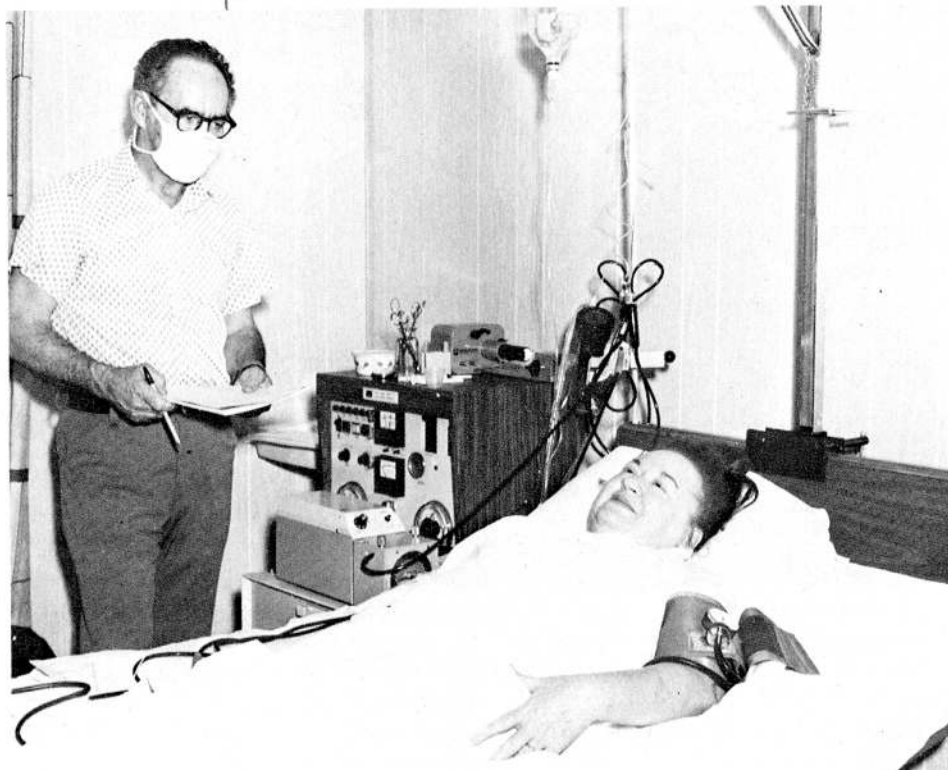
Good Friday is one of the holiest days in Christendom, marking the day of the crucifixion of Jesus of Nazareth, and has been celebrated since early in the third century.



\$25,000 CANCER RESEARCH GRANT — A check for \$25,000 was presented recently to the University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences by the United Order True Sisters, Inc., a national organization of Jewish women. From left: Floyd Culler, acting director of ORNL; Mrs. David A. Freiling, UOTS president; Mrs. Jacob S. Greenfield, UOTS national project chairman for cancer service; and Hilton A. Smith, University of Tennessee chancellor. The grant will be used to set up two fellowships for research in cancer immunology.

0772-73





**CHECKING DIALYSIS EQUIPMENT** — Howard I. Huff, Paducah Plant's Fabrication and Maintenance Division, checks the dialysis equipment his wife requires for a kidney ailment. Mrs. Huff no longer has to make the twice-a-month trip to Memphis for the treatment, thanks to friends and fellow workers at the plant.

## COMPANY SERVICE —20-25-30—

ORNL

0748-73 30 YEARS 0747-73



John Roberts

Clyde Roberts

Clyde H. Roberts is the administrative supervisor of the Media Kitchen in the Biology Division. He worked as a guard captain in the Laboratory Protection Division for 23 years. Roberts, who is an avid "big orange fan," especially enjoys football and track. He and his wife, Helen, live at 7921 North Forrest Road, Knoxville.

John E. Roberts, a communications officer in the Laboratory Protection Division, came to work for DuPont on April 22, 1943. He lives with his wife, Eleanor, at 3904 Carnation Drive, Knoxville. In his spare time, Roberts enjoys gardening, fishing, camping and hiking.

### Y-12 PLANT 25 YEARS

Samuel T. Benton and Robert J. McAlister.

### 20 YEARS

Raymond K. Barnett, James Lefevers, Luther Thurman Jr., Samuel D. Rea, Everett R. Dougherty, Sam J. Davis, Billy O. Miller, James P. Cook, Billy F. Wright, Rollin E. Plemons, Lytle W. West, Donald F. Bougrand, James S. Peterman, Edward P. Bostic, Daniel B. Braden, Glen D. Mowery, Joe D. Vannoy, Norman L. Dykes, Thomas J. Wilson, James W.

Graves, James P. Grubb, Milas L. Sweet, Edward K. Beeler, Harley L. Bridges, Dennis Bridges, William A. Agee, Harrison H. Williams Jr., Harvey Bridges Jr., Ernest E. Jenkins, Woodrow W. Onstott, Marvin H. Huskey, William C. Toomey, Maurice C. Asbury, Dewey L. Dagley, Paul D. Deniston, Myron E. Stooksbury, John H. Metcalf and William D. Hixon.

### PADUCAH 20 YEARS

William E. Anderson, Thedford E. Franks, Elnora Woods and Elbert L. Cherry.

## Kidney Foundation offers drug discount

"Most people are shocked when they find out that kidney disease is the fourth biggest health problem in the country," says Mrs. Gloria Cox, from the board of directors of the Tennessee Kidney Foundation. Kidney ailments account for more than 100,000 deaths a year, and like measles and the common cold, it's so widespread people tend to take kidney trouble for granted, not realizing how serious it is.

Medical experts estimate that in the United States, about four million children and adults have unrecognized and undiagnosed kidney ailments.

The National Kidney Foundation has undertaken the massive job of changing this through a program of research, treatment and education. Realizing that the cost of modern drugs can be a burden on the patient and family, the Foundation has established "drug banks" across the country, where drug stores sell patients their drugs at cost plus one dollar, greatly easing the financial burden to the families involved. (It costs a dollar, initially, to join the bank.)

In the Oak Ridge area, these services are provided by the Oliver Springs Drug Store, Oliver Springs.

Mrs. Cox says she will be happy to provide more information on the Drug Bank. Her Oak Ridge telephone is 483-3992.

## Fellow employees aid Huff in dialysis equipment, room

Early one Saturday morning, Howard I. Huff and wife, Aubrey, were awakened by noise from trucks, machines, and men. Almost 12 hours later, a 14 feet by 14 feet room had been added to their home on Contest Road, which was to become the dialysis room equipped with a dialysis machine, hospital bed, necessary plumbing and air-conditioning.

The machines, materials and men were the result of the feeling that the Paducah Plant employees have for "one of their own." Mrs. Huff is the victim of a kidney disease that called for her blood to be pumped through filters for six hours, twice a week. For several months the Huffs had made the trip to the Lamar Clinic in Memphis for this dialysis procedure. As time was a factor, Huff had some hair-raising experiences in getting his wife to the machine on time. The plant employees and residents of the Lone Oak community as represented by the Lions Club, learning of this, decided to remedy the situation.

A good friend, Stanley Pirtle, past president of the Lone Oak Lions Club, was made chairman of the Huff Fund Drive that raised the tens of thousands

of dollars necessary to purchase and supply the most modern dialysis equipment on the market. Huff's fellow employees learned of the need for a special room for the equipment and prompt action was taken on that Saturday to get the job done, and in the process, waking the Huff family.

Huff has taken five month's training in the operation of the equipment and the dialysis procedure, and is quite accomplished. His Fabrication Shop experience has stood him in good stead in the exact adjustment and operation of a precise piece of equipment.

The Huffs want to express their gratitude to the neighbors of the community, and to the employees at the plant who furnished their part of money and effort that was needed to make the undertaking a success.

Mrs. Huff is doing nicely. Huff doesn't have those two trips to Memphis hanging over his head. He feels the equipment is the result of a community concentrated effort and should the necessity arise, its use is open to the community.

## Benefit dance April 28

A benefit dance for the Tennessee Chapters of the National Kidney Foundation will be sponsored by the Polite Society Social and Civic Club of Oak Ridge on April 28. The dance will be held at the Oak Ridge Civic Center and will feature Bottom & Company with Carol King from Nashville. Tickets are \$3 each in advance, and \$3.50 at the door.

Several members of the Polite Society work in the Nuclear Division. Included are: Margaret Chrismon, ORNL; Lenice Holmes, ORGDP; Sandra Hough, Central Employment; Ruby Miller, Public Relations; Victoria Steward, Y-12; and Gwendolyn Woodard, ORNL. Advance tickets may be obtained from any of the above.

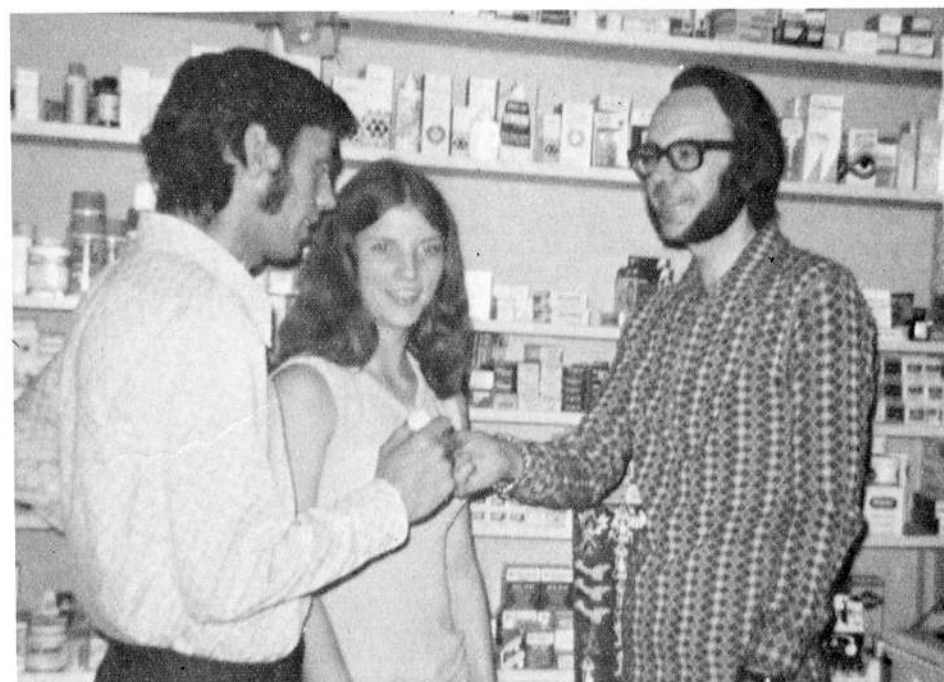


### Y-12 PLANT

Ride wanted from Woods Smith Road area, Knoxville, to North Portal, straight day. Martha Quimby, plant phone 3-7382, home phone Knoxville 584-5488.

### ORNL

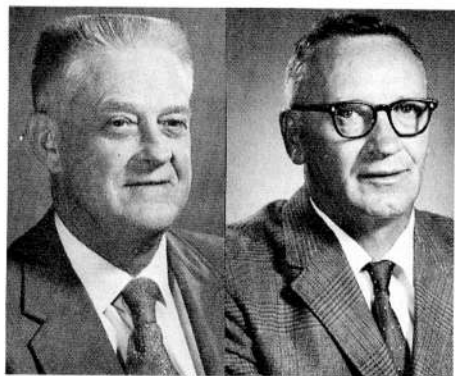
CAR POOL MEMBERS from vicinity of Suburban Shopping Area, West Hills and Crestwood Hills Subdivision, Knoxville, to West or South Portal, either shift. E. Leon Fair, plant phone 3-6775, home phone Knoxville 693-3211.



**KIDNEY FOUNDATION AID** — Larry Phillips and Joan Armes, left to right, purchase life-saving drugs from Stephen Terrell, pharmacist in Oliver Springs. Phillips received a kidney transplant three years ago and Miss Armes faces a similar transplant in the near future. The Oliver Springs Drug Store is cooperating with the Kidney Foundation in providing medicines at cost plus one dollar, which helps ease the financial burden on the patients.



# DIVISION Retirees



William Davis McIntyre

Sixteen Oak Ridge National Laboratory employees took early retirement effective April 1.

Robert E. Adams was a development engineer in the Metals and Ceramics Division. He lives at 102 E. Damascus Road, Oak Ridge.

Charles M. Blood, a research staff member, retired from the Reactor Division. The Blood home is at 105 Plymouth Circle, Oak Ridge.

John M. Bobb was the assistant chief librarian in the Information Division. He resides at 135 Villanova Road, Oak Ridge.

Francis J. Davis retired from the Health Physics Division after over 25 years of company service. He lives at 112 Disston Road, Oak Ridge.

William W. Davis was a development engineer in Metals and Ceramics Division. He had worked at ORNL since January 3, 1951.

Richard W. Dehoney retired from the General Engineering Division. He resides at 100 Rand Circle, Oak Ridge.

Zell Delay was an assistant general foreman of maintenance in the Plant and Equipment Division. He retired with 29 years of company service.

Jesse H. Erwin retired as a development engineer in the Health Physics Division. The Erwin home is at Route 3, Hardin Valley Road, Concord.

Harry H. Hubbell, Jr., has retired after over 22 years of service. He was a research staff member in the Health Physics Division.

Robert H. Lafferty Jr., has retired as assistant to the director of the Information Division. He had worked at ORNL since July 16, 1945. The Lafferty home is at 437 East Drive, Oak Ridge.

Sidney Mann was a development specialist in the Chemical Technology Division. He resides at Route 18, Garrison Road, Knoxville.

Glen T. McIntyre had worked at ORNL since September 15, 1947. He was a fire protection analyst in the Laboratory Protection Division. The McIntyre home is at 143 Nevada Circle, Oak Ridge.

Carey C. Morgan, a program engineer in the Plant and Equipment Division, retired after 23 years of company service. He lives at 6549 Kanuga Drive, Knoxville.

Phillip S. Rudolph was a research staff member in the Chemistry Division. The Rudolph home is at 106 E. Damascus Road, Oak Ridge.

William F. Vaughn worked in the Analytical Chemistry Division. He had over 21 years of company service. The Vaughn home is at 312 Bona Drive, Knoxville.

Edward I. Wyatt, a research staff member in the Analytical Chemistry Division, retired after over 26 years of company service. He lives at 1223 Dogwood Drive, Knoxville.

Five Y-12ers retire at the end of April. Leaving are Clell L. Cotter, Guard Department; John R. Pitts, Electrical and Electronics Department; Tim C. Tindell, Beta Four Heavy Machine Shop; and Bruce T. Whitaker, SS Warehousing and Shipping.



Cotter Pitts



Tindell Whitaker

Cotter lives at Route 8, Maryville, and joined Union Carbide in 1943.

Pitts came here in 1943, and lives at Route 2, Lenoir City.

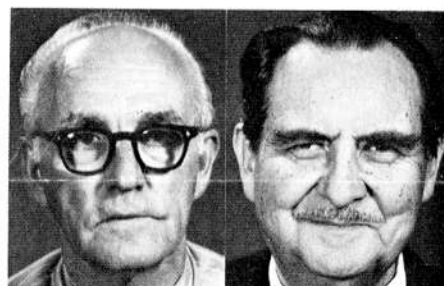
Tindell is another veteran, joining Union Carbide in 1959. He lives at Route 3, Corryton.

Whitaker, who lives at 125 South Purdue Avenue, Oak Ridge, joined Union Carbide in 1944.

By error, the News had Clyde C. Beeler retiring March 31. Beeler does not retire until the end of April.



**ASSUMES SIX-YEAR TERM** — Lorena Causey Matthews, treasurer-manager of Y-12's Credit Union, was recently sworn into office for a full six-year term as a member of the National Credit Union Board, in the office of Senator William E. Brock III, of Tennessee. She is administered the oath above by Sen. Brock as her husband, Lamar Matthews, an engineer in the Y-12 Plant, holds her mother's Bible. Mrs. Causey was the first woman appointed to the board and the first member to be re-appointed to the agency, which administers some 13,000 federal credit unions across the nation.



Hopkins Whitehead

Two Paducah employees retired recently, Glenn Hopkins and Ernest B. Whitehead. Hopkins was in Fabrication and Maintenance and lives at Clinton, Ky., where he plans to travel some and keep his monument business going.

Whitehead retires to his Marshall County home with his books, poems and paintings.

Men gossip less than women, but mean it. — Mignon McLaughlin

## Patents granted

To Rex E. Leuze, Milton H. Loyd and Othar K. Tallent, ORNL, for "Solvent Extraction Process for Producing Low-Nitrate and Large-Crystal-Size PuO<sub>2</sub> Sols."

To Wilbur D. Shults, ORNL, and John R. Kuempel, Greencastle, Ind., for "Electrochemical Air Pollution Monitoring Device and Method of Use Thereof."

To Ronnie A. Bradley and Terrence B. Lindemer, ORNL, for "Method for Reducing the Oxygen in Certain Actinide Oxides to Less Than Stoichiometric Levels."

"Hatred is a positive force; but then so is love. Love replaces hate, filling the vacuum so completely, there is room for no other emotion."

Anonymous



**PADUCAH AFFIRMATIVE ACTION** — The Paducah Plant's Affirmative Action Committee was briefed recently on the progress of a training program entitled, "Working with People." From left are William C. Taylor, William G. Canfield, Alice J. Lemonds, Jo A. Grisham, Wilma J. Payne, chairman H. Frank Shanklin, G. Keith Bryant, Norman L. Harper, Hugh G. Coltharp, Paul A. Bielefeld and Morris F. Shelton.





## RECREATIONOTES

### FISHING RODEO

Y-12's A Shift staged a big fishing rodeo at Bayside Dock, April 5. Crappie winners were S.R. Anders, F.D. Marler, J.R. Robinette and Bill Atkins.

C.S. Murr caught the largest small-mouth and largemouth, too. B.A. Murr took the prize for the biggest rough fish. J.R. Robinette repeated also, taking the dock prize.

### Y-12 BOWLING

The Bumpers are six points ahead, way out in front of the Playboys in the Classic League. Their Walt Sherrod recently rolled a 278 game to top the night's action.

The Mini Strikes are a bare two-point leaders in the C League, inches ahead of the Rollmasters, as the Sunflowers edge into third place. J.J. Sewell put a 258 down recently, and the Rollmasters have rolled a 1126 handicap game.

The Mixed League wound down its action last week with a tie for the lead in the second half. The Rollers and Alley Cats were deadlocked with 36 points won, 21 lost. The Rollers won the season's first half... so they must roll-off to decide last half winners and again to determine league champs, if necessary.

### ENGINEERING PICNIC

The Engineering Division from Y-12 and the Oak Ridge Gaseous Diffusion Plant is planning a big picnic June 2 at the Clark Center Recreation Park. Austini will highlight the big variety show. There will be a softball match, a hole-in-one contest, and a one-mile relay race between the sexes. There will be plenty of entertainment for the children, and committeemen for the gala event are reminding engineering personnel and their families to save June 2 for the big picnic.

### ORGDP BOWLING

Two ORGDP bowling leagues ceased action recently as the Wednesday League and Tuesday League finished all scheduled bouts.

In the Tuesday League, it was the All Stars, leagues ahead of the City Slickers. Their 3132 handicap series stood as season's highs. M.J. Gibson, of the top team, rolled a 659 handicap series on the final bowling session.

The Wednesday League went to the Mix-Ups, a full nine and one-half points away from the Planners. Dick Riker rolled a high game of 268 on the last night of action; Jim Conner a 645 series.

The ORGDP Women's Bowling League sees the Pay-Offs five out away from the Up-Towners. Mary Foley continues to pace bowlers, rolling a 223 game recently, a series of 579.

### ALL CARBIDE BOWLING

The Bowling Tournament ended this past weekend, with some unusually high scores. Complete details in next week's News.

The SASA's are still number one in the Carbide Family Mixed League, with Charley Thompson pacing the men and Al Adams pacing the women recently.

### CARBIDE VOLLEYBALL

The volleyball race stretches out to a rat race between three teams, and possibly two more, as the competition nears its end. The Hawks and The Pack, along with The Gang still stand heads up, with two, three and four losses each. The Committee has lost only eight, and the Taxi-Squad has lost nine.

League standings follow:

Team	W	L
The Pack	46	2
The Hawks	51	3
The Gang	41	4
The Committee	37	8
Taxi-Squad	42	9
Y-12 Old Men	29	13
Anti-Quarks	28	20
Electric Bananas	28	20
Old Men	24	21
Jokers	21	24
Over-the-hill Gang	18	24
Radphys	18	27
Quarks	16	26
Raiders	17	28
Bawlers	18	30
Benthics	13	29
Bombers	11	31
Spikers	12	36
The Sloths	8	40
Phoenix	6	39
Playmakers	5	43

### FAMILY BADMINTON

Family badminton play for Carbiders and their folks ended last week. This will resume, however, in the fall at the Old Jefferson Junior High School gym.



SEASON OPENING SOON — Hoyt Eason slams one down the third base foul line in last year's softball action. The Recreation Department is now taking entries in the slow-pitch game, with a deadline set for April 30.

### ORNL BOWLING

The Mousechasers take command in the ORNL Ladies Bowling League, barely away in points from the Pick-Ups.

The A League puts the Half Frames in front a mere point away from the Pockets. The Late Comers' Fred Kitts recently put a 246 game on the boards.

The Damagers still dominate the C League, as Tip Gray and Bob Robson share tied honors, each with a 223 game.

The E League sees a tie for top notch with the Woodchoppers and the Limits up there, only three points away from the Mets. J.H. Coobs, Limits, lopped off a 624 series recently, to pace his team to a 2875 series.

### CARBIDE SOFTBALL

The Recreation Office is now receiving team entries for the upcoming softball season. The deadline for entries will be 4:30 p.m., April 30. Teams are limited to not more than three Oak Ridge City or Knoxville City League participants.

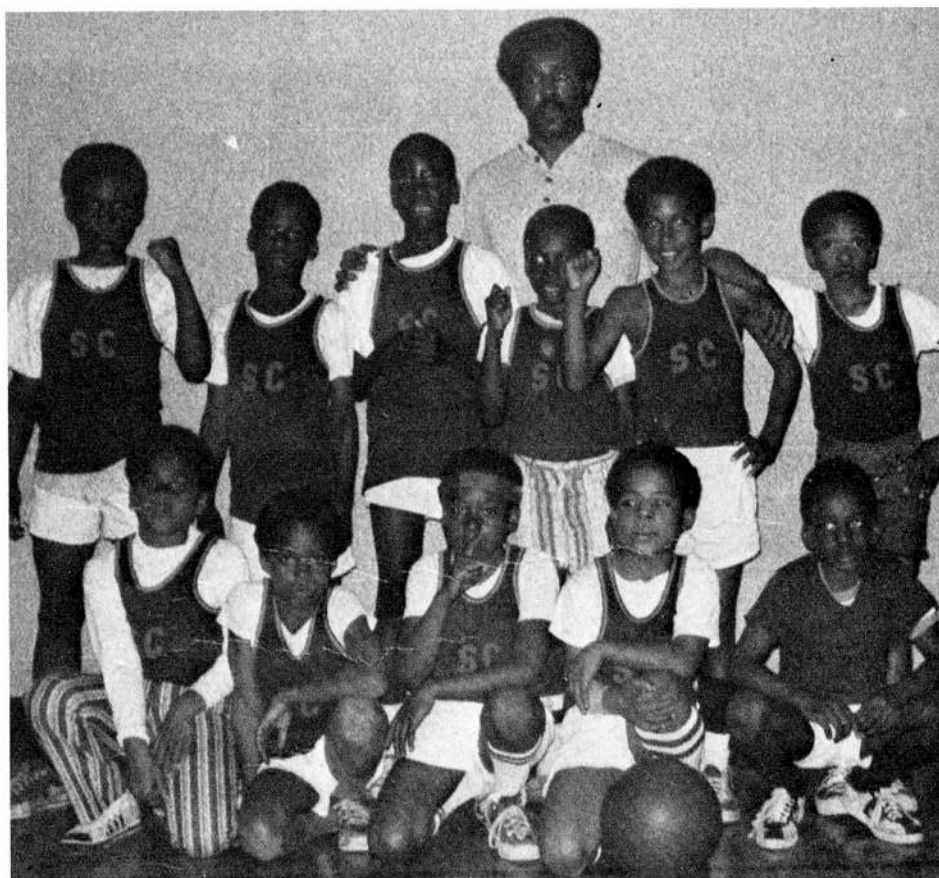
Play will begin about May 7. Equipment will be issued at the Clark Center Recreation Office next week, where the summer play will take place.

### CARBIDE GOLF

Greensmen braving the Spring chill to tee off at Wallace Hills (for Y-12ers); Whittle Springs (for ORGDPers); and Gatlinburg (for ORNLers) are gently reminded to send in their tee-off application by next Wednesday. Drawings for times will take place at 2 p.m. April 25, for the April 28 combat. ORNL golfers, with carts, will tee-off first, as usual.

Golf leagues are now being formed in Clinton, Oak Ridge and Kingston for Carbide tee-men. The Melton Hill, South Hills and Southwest Point courses are available for league play.

Call Recreation at extension 3-5833 to put your team in or leave your name to get on a team. Deadline is today at 4:30.



UNDEFEATED TERMITES — The Termites basketball team, sponsored by Spurgeon Chapel Church in Oak Ridge, finished the 1973 season 12-0. In the front row, from left are, Ken Hawkins (Gene, ORNL), Anthony Miller (Horace, Y-12), Glen Townes, Scott Gipson (Larry, ORNL) and Chris Chambles (Al, Y-12). In the second row, from left, Charles Bates, Larry Spratling, Edgar Manley (L.C., ORNL), Dave Hall, Anthony Willis and Earl Lewis (Jimmy, ORNL). In the rear is Larry Gipson, Coach. Not pictured are Mike Anthony (William, ORNL) and Coach L.C. Manley. (Parents who work for the Nuclear Division are listed in parentheses.)

## Calendar of Events

### COMMUNITY April 27-28

Oak Ridge Playhouse presents: "Indians." Playhouse, 8:20 p.m. Admission: adults \$2.50; students \$1.25. (Other performances May 4, 5, 11, and 12.)

### April 26-30

Foothills Craft Guild (high school craft). Oak Ridge Art Center, regular hours.

### May 3

Oak Ridge Playhouse tryouts for "Fiddler on the Roof." 7:30 p.m.

### IQ (I Quit)

Want to test your I.Q.? Think about the dangers of cigarette smoking, then pick a day to quit, an I.Q. Day. That bit of good health advice comes from your American Cancer Society.



# Getting along on less meat

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning their health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, or call the news editor in your plant, and give him your question on the telephone.)

By T. A. Lincoln, M.D.

Because of rising meat prices and participation in the recent meat boycott, some housewives may wonder whether they are jeopardizing their family's health by serving less meat. Even though the boycott will be short-lived, meat prices will probably remain high and many families will be forced to look more critically at their food costs. The problem is no longer confined to low income levels. Middle class families with a couple of hungry adolescent boys at home now often spend \$50 - \$60 each week at the supermarket.

Convenience is something the housewife appears to be unwilling to sacrifice, at least in a big way. By avoiding prepackaged, preprocessed, and precooked foods, she could probably save enough to make up for the recent increases in the cost of meat.

David L. Call, professor of food economics at Cornell University, writing in the American Dietetic Association Journal last year, pointed out the dramatic change which has occurred in the food marketing system in this country over the past 20 years. There has been a trend away from selling commodities and a shift of emphasis to marketing of services. When a woman buys food at the supermarket, she is not only buying food in the traditional sense but also a bundle of services wrapped around that food. The best, or maybe more appropriately the worst, example is the TV dinner. It is a small amount of food wrapped up with a lot of service. The various cake, pie, and pizza mixes require a lot of service in their manufacture which costs money. The manufacturer also creates a demand for his convenience items by seductive advertising, for which the consumer pays dearly.

## Americans change diet

There has also been a remarkable change in the consumption of certain major items in the American diet over the past 70 years. The approximate supplies per capita per year available to retail markets have shown dramatic changes. Between 1889 and 1961, wheat products declined from 223 lb./person/year to 118, corn products from 117 to 7.2, total flours and cereals from 358 to 146, and total potatoes from 215 to 110. Between 1932 and 1961, dairy products decreased from 832 to 640, but chicken and turkeys increased from 16 to 38, beef 43 to 75 (and now according to a recent TV news broadcast it is over 110) and pork and other meats from 63 to 69. The increase in sugars and syrups between 1889 and 1961 was 52 to 114.

The total calories consumed each day have declined during this time, largely due to decreased energy needs. Mechanization of practically all industries and the universal use of home appliances and automobiles have reduced calorie needs.

zation of practically all industries and the universal use of home appliances and automobiles have reduced calorie needs.

## You can eat less meat

Thus, people are getting their calories more from refined sugars and meat and less from cereals, flour, and potatoes.

It will surprise many to learn that the above change has actually been accompanied by a decrease in the amount of protein consumed. The protein in cereal grain products has been replaced by meat. We now feed our cereal grains to beef cattle in order to convert them into meat protein which we prefer but which is increasingly expensive. Unfortunately, one would have to eat approximately three slices of good bread to equal the protein in a modest portion (30 grams) of roast beef. Sedentary Americans would get even fatter if they depended only on bread for their protein.

Americans can stay perfectly healthy on less meat. Vegans, people who eat no animal products of any kind, including milk, eggs, cheese or seafoods, stay healthy if they supplement their high vegetable protein diets with Vitamin B-12. They enjoy considerably lower cholesterol levels and surprisingly are rarely overweight.

Vegetarians who get their protein from eggs, milk, and cheese, as well as vegetables such as beans, peas, corn, rice, potatoes and whole wheat, enjoy excellent health.

## Other protein sources

A clever housewife can make meat supplies go much further with various casseroles, especially those using various types of beans and rice. Milk, preferably powdered nonfat or skim, can be added to many dishes to increase their protein content. Soybeans and soybean flour can be used in many ways to expand meat patties or can be mixed with pickles, cheese, etc., to concoct sandwich spreads.

If natural protein foods become too expensive, we can turn to chemical manufacturers and food processors for help. A remarkably tasty but totally synthetic liquid diet composed of balanced proportions of L-amino acids, vitamins, minerals, glucose, and ethyl linoleate has been exclusively fed to volunteers over a 19-week period. They all maintained their weight and had no untoward physiological or psychological effects.

So, Mr. Merchant, we can get along with less meat!

## AFTER SURGERY

The days after surgery can be difficult for the cancer patient but the American Cancer Society has volunteers able to make a hospital visit who can say, "I've had the same thing myself but I'm back enjoying life. You can, too." Check with the ACS for more information.



Mrs. Richmond

## Barbara Richmond promoted at ORGDP

Barbara Lou Richmond, General Maintenance Division at ORGDP, has been promoted to a supervisory trainee.

Before coming to ORGDP in 1972, Mrs. Richmond worked with the Pharmaseal Lab, Johnson City, Tenn. She is a native of the Dyllis-Harriman area.

She has a 13-year old son, James, who attends Dyllis School.

Mrs. Richmond lives at Route 2, Harriman.

## Turner daughter is honored in Alaska



Sgt. Jane LeBlanc

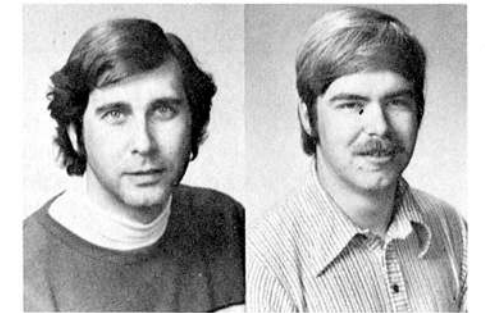
Sgt. Jane LeBlanc has been chosen airman of the month of the squadron and base at Anchorage, Alaska, where both she and her husband, Sgt. Robert P. LeBlanc, are stationed.

Mrs. LeBlanc is the daughter of Y-12er William M. Turner, Gage Laboratory. After her graduation from Roane County High School, she attended Bauder Fashion Career College in Atlanta.

Final selection for the honor was based on duty performance, military appearance, bearing, ability of self-expression, knowledge of Air Force organization and mission, and knowledge of current events.

## April papers set by several Y-12ers

Technologies developed by Union Carbide personnel at the Y-12 Plant in support of U.S. Atomic Energy Commission programs were reported at several national meetings in April.



Condon

Larson

James B. Condon and Eric A. Larson co-authored a paper entitled "Kinetics of the Uranium-Hydrogen System," which was given at the American Chemical Society meeting in Dallas, Tex., April 12.



Northcutt

Snyder



Ludwig

William B. Snyder Jr., Robert L. Ludwig and Walter G. Northcutt Jr., have written a report on "Liquid-Phase Sintered Tungsten Alloys," which was to be presented at the American Society of Metals Southern Industries Materials Conference in Atlanta, April 18-20.



Robinson

McMillan

David E. McMillan reports on "Application of a Minicomputer to Improve Maintenance Testing" at the Institute of Electrical and Electronic Engineers meeting in Louisville, April 30-May 2.

Theodore W. Robinson talked to the American Ordinance Association in Huntsville, Ala., April 11, on "Computerization of Gaging Equipment."

Have you moved? Make sure Records has your correct address. We want to know where you are. See your departmental office.



## Nuclear Division deaths

Eugene L. King, in Y-12's Fabrication Division, died at his Rocky Hill Lane, Knoxville, home April 2.

A native of Scott County, Mr. King grew up in Rockwood and lived in Knoxville for the past 20 years. He came to Y-12 in 1952.



Mr. King

A veteran of World War II, he served in France with the military police forces of the U.S. Army.

Survivors include his wife, Mrs. Edna Pierce King; a daughter, Mitzi; and a son, Terry King. His parents, Mr. and Mrs. Paul King, also survive, along with three brothers and three sisters.

Funeral services were held at the Rocky Hill Baptist Church with the Rev. Wayne Markham officiating. Burial followed in the Oak Grove Cemetery, Rockwood.

### RETIRED Y-12ER

John O. Loy, retired from Y-12's Metal Preparation Division, died April 7, at his Knoxville home. A native of this area, Mr. Loy worked nearly 20 years in Y-12 before his 1971 retirement. He is survived by his wife, Mrs. Goldia Lett Loy, two sons, a sister and three brothers. Funeral services were held in Knoxville, with burial in Lynnhurst Cemetery.

### ORGDP CHEMICAL OPERATOR

Albert S. Thornell, retired ORGDP Chemical Operator, died April 8, at the Oak Ridge Hospital. He retired from ORGDP in 1963. Survivors include his wife, Mrs. Renie Thornell, a son and a daughter, four brothers and four sisters. Services were held at the Weatherford Chapel with burial in Anderson Memorial Gardens.

William White, a guard at the Oak Ridge Gaseous Diffusion Plant, died at the Oak Ridge Hospital March 31.

A native of Chester County, Mr. White had been at ORGDP since 1944.



Mr. White

The White home is at 134 Placer Lane, Oak Ridge. Survivors include his wife, Mrs. Mary White; a daughter, Donna Lynn White; two sons, Billy and Ronald L. White; his mother, Mrs. Cora

A. White; two sisters and two brothers.

Funeral services were held at Smith's Chapel with burial in Beach Bluff Memorial Gardens.

Gaines A. Norman, Y-12's Electrical and Electronics Department, died April 7, in a Knoxville hospital. A native of Anderson County, he came with Union Carbide in 1952. He is a veteran of World War II.



Mr. Norman

Survivors include his daughters, Marjorie and Peggy Norman; sons, Ralph, Davy and Gary Norman; parents, Mr. and Mrs. Charles Norman; three sisters; and two grandchildren.

Funeral services were held at Stevens Chapel, with the Rev. Charles Fisher and the Rev. Fred Harbin officiating. Interment followed in Lynch Cemetery.

### NOTE ON QUESTIONS

There is a backlog in the Question Box at present. Please continue sending your questions, but also expect a delay. We are trying to answer all questions as promptly as possible. Your patience is kindly requested.

*The Editor*



**SIGNS GRANT IN AID** — Tommy Cook recently signed a full athletic scholarship with Northeast Louisiana University, where he will play football and baseball. A Lenoir City High senior, Cook was voted the outstanding athlete in the school. Standing are Jim Brannon, Lenoir High's coach; Jim and Betty Cook (Cook is in Y-12's Metal Preparation Division) and Bill Elliott, Y-12's Maintenance Department, who recruited the young athlete.

## CALENDAR of EVENTS

### TECHNICAL

April 25

Chemical Technology Division Seminar: "Interesting Biochemical Findings Through the Use of the UV-Analyzer," J.E. Mrochek. Central Auditorium, Building 4500N, 3 p.m.

Metals and Ceramics Division Seminar: "On the Structure of High-Angle Grain Boundaries," R.W. Balluffi, Professor of Materials Science, Cornell University. East Auditorium, Building 4500N, 2:45 p.m.

April 26

Biology Division Seminar: "Does the Host Play a Role in Herpes Virus Infections?" Albert Kaplan, Vanderbilt University, Large Conference Room, Building 9207, Y-12, 3 p.m.

April 26

Analytical Chemistry Division Seminar: "Hadamard Transform Spectroscopy," John A. Decker Jr., Spectral Imaging, Inc., Concord, Mass. East Auditorium, Building 4500N, 9:30 a.m.

May 2

Chemical Technology Division Seminar: "Krypton Scrubbing for Fuel Re-processing Plants," HTGR R.W. Glass; LMFBR F.E. Harrington. Central Auditorium, Building 4500N, 3 p.m.

May 3

Biomedical Graduate School Seminar in Aging: "Transcriptional and Translational Studies of Myelomas," Ru Chieh C. Huang, Johns Hopkins University. Large Conference Room, Building 9207, Y-12, 3 p.m.



**MUD CAT AT ORGDP** — Employees of the Marcol Dredging Company Hanahan, S.C., are dredging a pond at the Oak Ridge Gaseous Diffusion Plant in the photo above. They completed the New Hope Pond at Y-12 before moving to the ORGDP site.



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